

IN THE CLAIMS:

1. (Currently Amended) A modular wireless device comprising:
 - a shell that contains non-wireless components, at least one of which is system software;
 - a cartridge that contains wireless components, at least one of which comes from the set of baseband and RF hardware;
 - an interface that enables communication between the shell and cartridge;
 - a means for the shell ~~and cartridge to exchange to receive~~ configuration information over the interface or for the cartridge to receive configuration information over the interface; and
 - a mechanism that enables the shell to automatically respond to configuration information received over the interface or the cartridge to automatically respond to configuration information received over the interface; and
 - a means for the modular wireless device to configure its operation based on said configuration information.
2. (Original) The modular wireless device as recited in claim 1 wherein the cartridge is removably connected to the shell.
3. (Previously Presented) The modular wireless device as recited in claim 1 wherein the shell contains at least one button, a display, and a microprocessor and the cartridge contains protocol-stack software.

4. (Currently Amended) The modular wireless device as recited in claim 2 wherein:
the cartridge further includes replacement software; and
the modular wireless device further includes means for transferring the replacement software to the shell; and
the shell further includes means to upgrade, augment, or replace the system software using the replacement software, thereby modifying the shell to have different behavior.
5. (Previously Presented) The modular wireless device as recited in claim 4 wherein;
the system software contains a first version number;
the replacement software contains a second version number; and
wherein the cartridge and shell have a means to exchange the first and second version numbers to determine whether the system software should be replaced.
6. (Currently Amended) The modular wireless device as recited in claim 4 wherein:
the system software is associated with a first network operator and contains a first network operator-identification number that uniquely identifies the first network operator;
the replacement software contains a second network operator identification number that may be the same or different than the first identification number; and
wherein the cartridge and shell exchange the first and second network operator identifications to determine whether the system software should be replaced.

7. (Currently Amended) The modular wireless device as recited in claim 1 wherein:
the shell further includes a software application;

the shell has means for the software application ~~to register with~~ communicate a request for wireless communication services to the system software ~~for a wireless communication service~~; and

the system software includes means to store said application request;

the modular wireless device further includes means for the cartridge to ~~communicate send to the system software control information that contains~~ the wireless communication services ~~availability to the system software~~ available to the cartridge; and

the system software has means to notify the software application of the availability of a wireless communication service in the cartridge,

whereby the software application can configure its operation according to the wireless communication services available in the cartridge.

8. (Currently Amended) The modular wireless device as recited in claim 7 wherein the system software maintains in memory a list or array of wireless communication services; ~~and the list or array describes the that specifies which such~~ services the shell is able to support based on the shell's hardware characteristics.

9. (Currently Amended) The modular wireless device as recited in claim 8 wherein the system software has means for expanding the list or array stored in memory to incorporate new wireless communication services.

10. (Currently Amended) The modular wireless device as recited in claim 8 wherein:
the cartridge has means of sending to the shell information that contains the
wireless communication services supported by the cartridge; and
the shell has means of ~~using~~ comparing this information to the list or array to
determine which wireless communication services in the cartridge the shell is able to use.
11. (Currently Amended) The modular wireless device as recited in claim 2 wherein:
the shell further includes a first memory storage bin for storing subscriber
information used by a communication network to identify the device or the user of the
device;
the cartridge further includes a second memory storage bin for storing subscriber
information used by a communication network to identify the device or the user of the
device; and
the modular wireless device further includes means for this subscriber information
to be exchanged between the shell and cartridge.
12. (Original) The modular wireless device as recited in claim 11 wherein at least one
of the memory storage bins is a SIM card.
13. (Original) The modular wireless device as recited in claim 11 wherein the
information exchanged is used to determine which memory storage bins contain
subscriber information.

14. (Original) The modular wireless device as recited in claim 11 further including a means for determining whether to use the subscriber information in the shell or the subscriber information in the cartridge when both the first and second memory storage bins contain subscriber information.
15. (Original) The modular wireless device as recited in claim 11 further including a means for notifying the user which subscriber information will be used.
16. (Cancelled)
17. (Original) The modular wireless device as recited in claim 11 wherein the first memory storage bin in the shell has means to store subscriber information related to more than one air-interface standard.
18. (Previously Presented) The modular wireless device as recited in claim 17 wherein the subscriber information in the first memory storage bin is displayed according to the air-interface standard it corresponds to.
19. (Original) The modular wireless device as recited in claim 11 wherein the cartridge has a means for obtaining the subscriber information in the shell's memory storage bin and communicating this subscriber information to a wireless network.

20. (Original) The modular wireless device as recited in claim 19 wherein the subscriber information contains data a wireless network needs to forward calls from a first phone number to a second phone number.
21. (Previously Presented) The modular wireless device as recited in claim 20 wherein the data is an executable that the wireless network can execute to forward calls from a first phone number to a second phone number.
22. (Original) The modular wireless device as recited in claim 12 wherein both memory storage bins are SIM cards; and
the SIM cards include user data; and
the modular wireless device includes means for synchronizing the user data in the SIM cards.
23. (Previously Presented) The modular wireless device as recited in claim 2 further including:
a locking mechanism in the shell that prevents the shell from accessing the wireless communication services in the cartridge; and
a means for unlocking the locking mechanism.
24. (Original) The modular wireless device as recited in claim 23 wherein the means for unlocking the locking mechanism consists of a user entering a pass code into the shell.

25. (Previously Presented) The modular wireless device as recited in claim 23 wherein the means for unlocking the locking mechanism consists of the shell obtaining a pass code from the cartridge.

26. (Original) The modular wireless device as recited in claim 23 wherein the locking mechanism is automatically activated when the cartridge is removed from the shell.

27. (Previously Presented) The modular wireless device as recited in claim 2 further including:

a locking mechanism in the cartridge that disables wireless communication services in the cartridge; and

a means for unlocking the locking mechanism.

28. (Previously Presented) The modular wireless device as recited in claim 27 wherein the means for unlocking the locking mechanism consists of the cartridge obtaining a pass code from the shell.

29. (Original) The modular wireless device as recited in claim 27 wherein the means for unlocking the locking mechanism consists of a wireless network communicating a pass code to the cartridge.

30. (Original) The modular wireless device as recited in claim 27 wherein the locking mechanism is automatically activated when the cartridge is removed from the shell.

31. (Currently Amended) The modular wireless device as recited in claim 2 wherein:
the modular wireless device contains means for exchanging information ~~related to~~
~~communication preference values between the shell and cartridge~~ that contains
parameters used for data communications.

whereby the cartridge can obtain data communication ~~preference values~~
parameters from the ~~user~~ shell.

32. (Cancelled)

33. (Cancelled)

34. (Original) The modular wireless device as recited in claim 32 wherein the format enables the cartridge to communicate to the shell that the communication preference value should be encrypted.

35. (Cancelled)

36. (Currently Amended) The modular wireless device as recited in claim 2 wherein
~~the cartridge and shell have means to automatically~~ device has a mechanism that triggers

automatic exchange of control configuration information over the interface when the cartridge is inserted into the shell.

37. (Canceled).

38. (Canceled).

39. (Currently Amended) The modular wireless device as recited in claim 7 wherein the cartridge includes a software-defined radio that is able to reconfigure its hardware based on different types or modes of software in the cartridge.

40. (Currently Amended) The modular wireless device as recited in claim 31 wherein the cartridge includes a software-defined radio that is able to reconfigure its hardware based on different types or modes of software in the cartridge.

41. (Original) The modular wireless device of claim 1, wherein the at least one wireless component is baseband hardware.

42. (Original) The modular wireless device of claim 1, wherein the at least one wireless component is RF hardware.